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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/770,564	01/26/2001	Jonathan P. Duvick	P05569US2	8512	
75	90 . 08/12/2003				
Karen Moon Bruce Pioneer Hi-Bred International, Inc. Corporate Intellectual Property			EXAMINER		
			IBRAHIM, MEI	DINA AHMED	
7100 N.W. 62nd Avenue, P.O. Box 1000 Johnston, IA 50131-1000			ART UNIT	PAPER NUMBER	
			1638	7 .	
			DATE MAILED: 08/12/2003	DATE MAILED: 08/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

2.2	Application No.	Applicant(s)				
Office Action Commence	09/770,564	DUVICK ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication and	Medina A Ibrahim	1638				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1) ☐ Responsive to communication(s) filed on 16 July 16 July 16 July 17 July 18 Jul	ulv 2003					
	s action is non-final.					
3) Since this application is in condition for allowa		osecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-6 and 10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6 and 10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1/2. 		(PTO-413) Paper No(s) Patent Application (PTO-152)				



Art Unit: 1638

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I in Paper No. 6 filed on 07/16/03 is acknowledged. The traversal is on the ground(s) that the restriction requirement between inventions of SEQ ID NO: 5, 10 and 22 is not proper because SEQ ID NO: 5 and 10 are truncated versions of SEQ ID NO: 22 having APAO activity, while SEQ ID NO: 22 is a full length APAO nucleotide sequence. Applicant further argues that Groups I and II are related because the process of using the nucleic acid sequences is directed to degrading fumonisin. These arguments are not all persuasive.

In view of the amendment to the claims to recite "95%" sequence identity; SEQ ID NO: 5, 10 and 22 can be examined on the merits in this application without search burden because the sequences have been searched in parent application 09/352, 168, now US PAT 6, 211, 435. Therefore, SEQ ID NO: 5, 10 and 22 are hereby rejoined. Applicant is welcomed to amend the claims to include all 3 sequences.

Applicant's arguments regarding Group I relating to Group II are not found persuasive because the inventions are unrelated for the reasons stated in the last Office action. While both inventions involve use of APAO polynucleotide, each method uses different population (a host cell vs plant), have different modes of operation and the final products are different (purified polypeptide vs transgenic plants). Therefore, the inventions have different field of search, and hence their co- examination bears search burden upon the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

Application/Control Number: 09/770,564

Art Unit: 1638

Claims 1-6 and 10 are pending and are examined.

Drawings

No drawings have been filed with this application

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: it does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56. Applicant is required to list the US application 09/352, 168 and the provisional application independently.

Claim Objections

In claim 6, "the cell is" should be changed to ---the plant cell is from a plant----, for clarification.

In claim 10, part (b), ---isolating and ---, should be inserted before "purifying---.

Written Description

Claims 1-6 and 10 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.



Art Unit: 1638

The claimed invention does not meet the current written description requirements because the claims do not recite a functional language. See Written description Examination Guidelines published in Federal Registry/Vol. 66, No.4/Friday, January 5, 2001/Notices).

This rejection can be obviated by inserting ---, wherein the polynucleotide encodes a polypeptide having fumonisin degrading activity----, in claims 1-4 and 10.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-6 and 10 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of U.S. Patent No. 6,211, 435. Although the conflicting claims are not identical, they are not patentably distinct from each other because the invention claimed in both the application and the issued patent encompass SEQ ID NO: 5, 10 or 22, transformed plant cell comprising said polynucleotide, and a method for making recombinant APAO enzyme. The invention claimed in the application, drawn to an isolated polynucleotide



Art Unit: 1638

having at least 95% sequence identity to SEQ ID NO: 5, 10 or 22 is broader in scope than the polynucleotide of SEQ ID NO: 5, 10 or 22 claimed in the patent, and therefore encompasses the invention claimed in the issued patent. Therefore, the instantly claimed invention is obvious over the invention claimed in the issued patent.

Remarks

No claim is allowed.

Papers related to this application may be submitted to Technology Sector 1 by facsimile transmission. Papers should be faxed to Crystal Mall 1, Art Unit 1638, using fax number (703) 308-4242. All Technology Sector 1 fax machines are available to receive transmission 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Medina A. Ibrahim whose telephone number is (703) 306-5822. The Examiner can normally be reached Monday-Thursday from 8:30AM to 5:30PM and every other Friday 9:00AM to 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Amy Nelson, can be reached at (703) 306-3218.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

8/7/03 Mai Medena A-Ibrah